

LEXAN™ FR Resin LCF1506

(PC+PTFE)-CF15

Saudi Basic Industries Corporation (SABIC)

Product Texts

LEXAN LCF1506 compound is based on Polycarbonate (PC) resin containing 15% carbon fiber, 5% PTFE. Added features of this grade include: Electrically Conductive, Internally Lubricated, Wear Resistant and Flame Retardant

UL Yellow Card Link [E207780-228432](https://www.ul.com/yellowcard/E207780-228432)

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	111	MPa	ASTM D 638
Tensile Strength at Break	111	MPa	ASTM D 638
Elongation at Break	4.1	%	ASTM D 638
Flexural Modulus	9080	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	283	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn. Thickness tested	V-0 1.5	class mm	IEC 60695-11-10 -
ASTM Data			
DTUL @ 66 psi	141	°C	ASTM D 648
DTUL @ 264 psi	137	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	10000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1310	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	290 - 315	°C	-
Mold temperature	70 - 105	°C	-
Zone 1	275 - 295	°C	-
Zone 2	280 - 305	°C	-
Zone 3	290 - 315	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Increased electrical conductivity, Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific